



# ICY1845TT and ICY1845IN/OT Timer Thermostat

ErP Klasse  
**IV** +2%  
zie [www.icy.nl](http://www.icy.nl)

## Manual

### How the ICY Timer Thermostat works

With a conventional thermostat, we often see that residents leave the heating at 20°C or 22°C day and night, even when people are not present. After all, it's nice to come to a warm house or wake up. This is something one would probably not do at home and which costs the operator or owner a lot of money in a rental situation.

#### How it will be

By using the ICY Timer Thermostat with presence detection, it is no longer possible to leave the thermostat set to a high temperature in the absence. This results in significant energy savings.

#### The comfort period

With an ICY Timer Thermostat, the user has complete freedom to set the temperature as he wishes, simply by using the buttons to set the temperature he or she wants. However, the maximum temperature that can be set is determined by you.

#### Here lies the first major saving!

After a fixed period (the comfort period) the Timer Thermostat will beep, which means that the temperature goes to a lower level. The duration of the comfort period is determined by you (for example 2 hours). As long as the user is present, the Timer Thermostat will remain in the comfort position. The presence is signaled with a motion sensor.

#### The rest period

When no people are present, after the comfort period has expired, the temperature will go to a resting temperature determined by you (for example 15°C). The user will have to operate the Timer Thermostat again to start a new comfort period.

#### Here lies the second major saving!

### Options 1845TT/1845IN/OT

	ICY1845TT	ICY1845IN/OT
Warm welcome	▲	▲
Light sensor	▲	▲
Motion detector	▲	▲
Clock	▲	▲
Wirelessly controllable and programmable		▲

### Installation

1. Check if the heater voltage is correct (24VAC or DC) and turn off the power.
2. Make a choice for connection to OpenTherm or On/Off at the boiler and connect the thermostat to the correct terminals. For connection aid consult the manual of your heating appliance.
3. Remove the knobs from the Timer Thermostat

4. Connect the two thermostat wires to the plug and slide the plug onto the correct connection, as you have chosen for the boiler. AU (On/Off) or OT (OpenTherm).

#### PAY ATTENTION! Wrong connection will damage the thermostat!

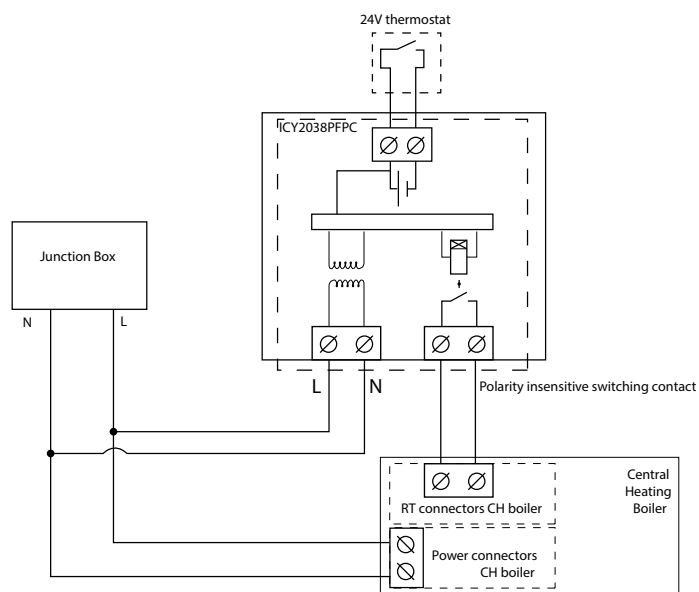
5. Attach the Timer Thermostat through the openings of the knobs using the two screws of ± 30 mm and switch on the power.
6. As soon as the Timer Thermostat is powered, "LO" will appear on the display. The thermostat then charges. Once it is sufficiently charged, you will hear a series of beeps and it is ready for use.

This may take 15 minutes.

7. Tip: If you have multiple thermostats to install, it is advisable to charge the thermostats in advance using a separately available power supply, the ICY4820TT Thermostat Supply.

### Connections other than 24V

With the ICY2038PFPC Potential Free Power Converter it is possible to connect the thermostat to heating systems that switch other than 24V. The diagram below shows you how.



## Handmatig programmeren

### Meaning of modes

<b>COMFORT TEMPERATURE:</b>	Temperature applied during the day and evening when the user is present.
<b>DORMANT TEMPERATURE:</b>	Predefined temperature maintained at night and when user is absent.
<b>ANTIFROST TEMPERATURE:</b>	Temperature applied when the Timer Thermostat has not been operated for an extended period of time, eg 12 hours.

	standard	your value
T1 - Antifrost temperature	10 °C	
T2 - Maximum temperature	24 °C	
T3 - Comfort periode (x 10 min.)	12	
T4 - Dormant temperature	15 °C	
T5 - Dormant period	12 h	
T6 - Start clock: Hour	--	
T7 - Start clock: Minute	X	
T8 - Tu - Current time: Hour	X	
T9 - Tm - Current time: Minute	X	
P1 - the first two digits of your PIN code	--	
P2 - the second two digits of your PIN code	--	

To manually program the Timer Thermostat, follow the step-by-step plan below. If you use the ICY1845IN in combination with ICY Accommodation Management, you can easily program these settings remotely at once.

To enter the menu, hold down the left (-) button for about 10 seconds, until 'P1' appears on the display. Release the key. A '0' will now appear on the display.

1. The Timer Thermostat is now in programming mode and asks for the first two digits of the PIN code. Move up or down with the keys until this value is reached and wait about 10 seconds when you are done.
2. 'P2' will now appear on the display and then a '0'. The Timer Thermostat will now ask for the second part of your PIN code. Enter it and wait again for 10 seconds.
3. When the PIN code has been entered correctly, you will be given the option to program the values from the table above. If the PIN code is not correct, the Timer Thermostat will beep a number of times and then exit the programming mode.

NB! When no button is touched for about 10 seconds in programming mode, the Timer Thermostat automatically switches to the next function.

4. The Timer Thermostat is equipped with a clock. If the clock has not been set (default setting), the value '--' will appear at T6. You can adjust the value with the plus and minus keys.

By moving the minus key to the minimum ('--') the clock is switched off. If you do switch the clock on, you can enter the start time of the clock and the current time with the values T6 to T9.

5. Then the programmed PIN code is displayed by means of P1 and P2. You can change your password by changing the values of P1 and P2. If you do nothing, the same PIN will remain.
6. The Timer Thermostat saves any changes in memory and exits programming mode after a few beeps.

## Operating

You can adjust the temperature to your liking with the "-" and "+" buttons.

When you set the temperature, you will see the set temperature (as long as the 'C' symbol is flashing). Then the current temperature in the room is displayed. This temperature will be maintained as long as you are present.

When you leave the room, the temperature will automatically go to a (lower) resting temperature to save energy.

You activate the thermostat again upon entry by touching the "-" or "+" key. If a room is not used for a longer period of time, it will cool down to the anti-frost temperature due to the energy-saving operation of the ICY Timer Thermostats.

## Warm Welcome

When the room is put back into use, it takes a few hours before it is back to a comfortable temperature. For example, if you want residents/guests to arrive in a warm accommodation, have the heating switched on well in advance.

Due to the energy-saving nature of the ICY Timer-Thermostats, the Dormant temperature will be activated after the Comfort period has expired, so that the house is only heated to, for example, 15°C.

A temporary extension of the Comfort period is desirable in order to enable the home to be heated to, for example, 20°C in situations like this. This is possible through the "Warm Welcome" mode.

**Warm Welcome maintains a temperature that you set until the Timer Thermostat is operated again.**

This makes it possible - without changing the settings - to maintain a certain temperature for a maximum of two days in a row.

Warm Welcome is deactivated once the thermostat is actuated and the Timer Thermostat resumes its normal cycle!

### Activate Warm Welcome

1. Set the temperature to the value you want Warm Welcome to maintain.
2. Then keep the right button pressed until, after about 10 seconds, 'P2' appears on the display.
3. Release the key. A '0' will now appear on the display.
4. The Timer Thermostat is now in Warm Welcome mode and is requesting the last two digits of the PIN code.
5. Enter the last two digits of your PIN and wait 10 seconds.
6. When the PIN is correct, Warm Welcome is activated.

After entering, the Timer Thermostat does not indicate whether the PIN code was correct or not. It is therefore imperceptible whether or not Warm Welcome is active. It is only noticeable because the Comfort period is maintained. This makes it almost impossible for your guests to activate Warm Welcome, because after each attempt the entire Comfort period has to be waited to see whether or not it expires and thus to determine whether the entered PIN code was correct or not.

NB! Activating Warm Welcome should be the last action you perform on the Timer Thermostat! If you still operate the Timer Thermostat afterwards, you deactivate WarmWelcome.

## How does the clock work

If you have programmed a day clock, the comfort period starts every day at that set time. E.g. every day at 7:00 a.m. start comfort.

If there is no movement, the thermostat switches back to rest after the comfort period.

When there is no operation or movement for 2 days, the clock is deactivated and therefore no longer switches on.

As soon as the thermostat is operated again, the clock is activated again.